

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

5 **Listing of Claims:**

Claim 1 (previously presented): A liquid crystal display device comprising:

a liquid crystal display panel;
a light source for providing light beams to irradiate the liquid crystal display panel;
and

10 an optical sheet positioned between the liquid crystal display panel and the light source and having a first surface facing the light source, the first surface having a plurality of prisms for totally reflecting portions of ambient light beams that have passed through the liquid crystal display panel to irradiate the liquid crystal display panel and to increase a brightness of the liquid crystal display device by the portions of ambient light beams, each of the prisms comprising a first plane and a second plane, an included angle between the first plane and the second plane being in the range between 80° and 130°.

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Claim 2 (original): The liquid crystal display device of claim 1 wherein each of the
20 prisms is a symmetric structure or an asymmetric structure.

Claim 3 (canceled).

Claim 4 (previously presented): The liquid crystal display device of claim 1 wherein the
25 optical sheet comprises a second surface facing the liquid crystal display panel.

Claim 5 (original): The liquid crystal display device of claim 4 wherein a is an included

angle between a normal of the second surface and the first plane of each prism, and $a = 90^\circ - \sin^{-1}(n_1 * \sin(b)/n_2) - c$, wherein b is an incident angle of the ambient light beams when the ambient light beams are incident on the second surface of the optical sheet, $c = \sin^{-1}(n_1/n_2)$, n_1 is a refractive index of an ambient environment, and n_2 is a refractive index of the
5 optical sheet.

Claim 6 (original): The liquid crystal display device of claim 5 wherein b is less than or equal to 60° .

10 Claim 7 (original): The liquid crystal display device of claim 5 wherein d is an included angle between the normal of the second surface and the second plane of each prism, and $d = 45^\circ + [\sin^{-1}(n_1 * \sin(f)/n_2) - a + c]/2$, wherein f is a refraction angle of the ambient light beams when the ambient light beams leave the second surface of the optical sheet.

15 Claim 8 (original): The liquid crystal display device of claim 7 wherein f is less than or equal to 60° .

Claim 9 (original): The liquid crystal display device of claim 1 wherein the optical sheet is a diffusing sheet.

20 Claim 10 (original): The liquid crystal display device of claim 9 wherein the optical sheet comprises polycarbonate (PC), polyethylene terephthalate (PET) or polymethyl methacrylate (PMMA).

25 Claim 11 (original): The liquid crystal display device of claim 1 wherein the optical sheet is a polarizer.

Claim 12 (previously presented): A liquid crystal display device comprising:
a liquid crystal display panel; and
an optical sheet having a first surface facing the liquid crystal display panel and a second surface opposed to the first surface, the second surface comprising a plurality of prisms for totally reflecting portions of ambient light beams that have passed through the liquid crystal display panel to irradiate the liquid crystal display panel and to increase a brightness of the liquid crystal display device by the portions of ambient light beams, each of the prisms comprising a first plane and a second plane, an included angle between the first plane and the second plane being in the range between 80° and 130°.

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10 Claim 13 (canceled).

Claim 14 (previously presented): The liquid crystal display device of claim 12 wherein
15 each of the prisms is a symmetric structure or an asymmetric structure.

Claim 15 (canceled).

Claim 16 (previously presented): The liquid crystal display device of claim 12-wherein a
20 is an included angle between a normal of the first surface and the first plane of each prism,
and $a = 90^\circ - \sin^{-1}(n_1 * \sin(b) / n_2) - c$, wherein b is an incident angle of the ambient light
beams when the ambient light beams are incident on the first surface, $c = \sin^{-1}(n_1 / n_2)$, n_1 is
a refractive index of an ambient environment, and n_2 is a refractive index of the optical
sheet.

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Claim 17 (original): The liquid crystal display device of claim 16 wherein b is less than or
equal to 60°.

Claim 18 (original): liquid crystal display device of claim 16 wherein d is an included angle between the normal of the first surface and the second plane of each prism, and $d = 45^\circ + [\sin^{-1}(n_1 * \sin(f)/n_2) - a + c]/2$, wherein f is a refraction angle of the ambient light beams

5 when the ambient light beams leave the first surface of the optical sheet.

Claim 19 (original): The liquid crystal display device of claim 18 wherein f is less than or equal to 60° .

10 Claim 20 (original): The liquid crystal display device of claim 12 wherein the optical sheet is a diffusing sheet.

Claim 21 (original): The liquid crystal display device of claim 20 wherein the optical sheet comprises polycarbonate, polyethylene terephthalate or polymethyl methacrylate.

15 Claim 22 (original): The liquid crystal display device of claim 12 wherein the optical sheet is a polarizer.

Claim 23 (original): The liquid crystal display device of claim 12 further comprising a
20 light source for providing light beams to irradiate the liquid crystal display panel, and the optical sheet being positioned between the liquid crystal display panel and the light source.